Energy audit

1634. SHRI MAHENDRA MOHAN: Will the Minister of POWER be pleased to state:

(a) whether Government are aware that energy audit is a systematic study undertaken in major energy consuming sections and equipments with a view to identify the utilization of energy and pin-point wasteful energy used;

(b) whether Government are also aware that in many Government buildings, housing various Government offices, a lot of energy is wasted;

(c) whether energy audit of any Government building has been undertaken so far and if so, what are its findings and suggestions for saving energy; and

(d) if not, the reasons therefor?

THE MINISTER OF POWER (SHRI SUSHILKUMAR SHINDE): (a) Yes, Sir.

(b) Due to use of old fittings and out dated technology, there is some wastage of electrical energy.

(c) Energy audit studies were conducted in several government buildings and potential of savings found in the studies ranges from 20% to 46%. A set of suggestions have been recommended for saving energy such as :

(i) Power factor improvement;

(ii) Power saving in lighting by providing energy efficient Compact Fluorescent Lamp (CFL)

(iii) Power saving by optimizing transformer operation;

(iv) Power saving in Air Conditioner (AC) by providing Variable Reftigerant Volume (VRV) type Air Conditioning system;

(v) Replacement of existing decentralized AC unit (that is window type/ split unit/package unit by centralized AC plant with installation of energy efficient chillers);

(vi) Replacement of existing luminaries provided with Fluorescent Tube Light (FTL) with energy efficient luminaries with T5 lamp; and

(vii) Replacement of inefficient pump sets with energy efficient pump sets.

(d) Does not arise.

Reduction in carbon emissions

1635. SHRI C. PERUMAL: Will the Minister of POWER be pleased to state:

(a) whether it is the fact that the country's CO_2 emission growth rate has been high during the recent years, that is 1500 million tonnes of carbon emission every year;